

HYBRID SERIES //

GEN PRO-LB-EU

8-12K

(Single-Phase)



21kW

Max. PV input
power



250A

Max. charge/discharge
current



16

Units parallel

- Output power from 8kW to 12kW
- Built-in Type II AC/DC surge protection
- IP66 protection rating
- Next-generation internal structure optimization

SPECIFICATIONS

Model	GEN PRO-LB-EU 8K		GEN PRO-LB-EU 10K	GEN PRO-LB-EU 12K
Input (PV DC)				
Max. PV input power (W)	16000		21000	21000
Rated PV input voltage (V)			360	
Number of independent MPPT inputs			3 / (1:1:1)	
Max. PV input voltage (V)			530	
MPPT voltage range (V)			60 ~ 425	
Start-up voltage (V)			50	
Max. PV input current per MPPT (A)			20 / 20 / 20	
Max. PV short-circuit current input per MPPT (A)			32 / 32 / 32	
Battery				
Compatible battery type	Lithium-ion / Lead-Acid			
Rated battery voltage (V)			48	
Battery voltage range (V)			40 ~ 60	
Max. charge / discharge current (A)	180		230	250
Max. charge / discharge power (W)	8000		10000	12000
Force wake up battery from PV&Grid&GEN function			YES	
Grid				
Rated AC voltage (V)			230	
Rated AC frequency (Hz)			50 / 60	
Rated AC output current (A)	34.7		43.5	52
Rated AC output power (W)	8000		10000	12000
Max. apparent power (VA)	8000		10000	12000
Max. AC input current (A)			100	
Max. AC input power (W)			23000	
PF	0.99 (Adjustable from 0.8 leading to 0.8 lagging)			
THDI			< 3%	
Max continuous AC passthrough current (A)			100	
GEN				
Rated GEN voltage (V)			230	
Rated GEN frequency (Hz)			50 / 60	
Rated GEN input current (A)			80	
Rated GEN input power (W)			18400	
UPS				
Rated output power (W)	8000		10000	12000
Rated output voltage (V)			230	
Rated output current (A)	34.7		43.5	52
Rated output frequency (Hz)			50 / 60	
Surge power, duration	2 × rated power for 10s			
Switching time			7ms	
Wave form			Sine wave	
THDV			< 3%	
Efficiency				
MPPT efficiency			99.9%	
EU efficiency			96.0%	
Max. efficiency			97.3%	
Max. charge / discharge efficiency			95.0%	
Protection				
Over current / voltage protection			YES	
Anti-islanding protection			YES	
AC Short-circuit current protection			YES	
Leakage current protection			YES	
AFCI			Optional	
Ground fault monitoring			YES	
Grid monitoring			YES	
DC Switch			YES	
AC / DC Surge protection			Type II	
General				
Dimensions (W × H × D)	420 × 634 × 229.5 mm / 16.54 × 24.96 × 9.04 in			
Weight	27.2 kg / 60 lbs		30.2 kg / 66.7 lbs	
Ingress protection rating			IP66	
Relative humidity			0 ~ 100%	
Operating environment temperature range (°C)			-25 ~ 60 °C , > 45 °C Derating	
Storage temperature range (°C)			-40 ~ 65	
Display & Communication interface			LCD, RS485, Wifi, CAN	
Warranty			5 / 10 years	
Cooling method			Smart cooling	
Topology on AC / Battery side			Transformerless / Transformer	
Max. operating altitude (m)			4000, > 2000 Derating	
Noise emission (dB)			< 50	
Standard & Certification				